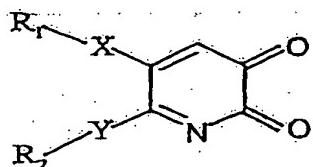


Please rewrite the claims as follows:

1. (Original) A compound represented by formula I:

(formula I)



wherein

R<sub>1</sub> and R<sub>2</sub> may be the same or different, each independently represents substituted or unsubstituted phenyl, pyridinyl or pyrimidinyl,

X and Y may be the same or different, each independently represents an N or S atom, provided that when X or Y represents S, then the R<sub>1</sub> or R<sub>2</sub> attached to the S atom is substituted or unsubstituted phenyl.

2. (Original) The compound of claim 1, wherein

when R<sub>1</sub> or R<sub>2</sub> represents substituted phenyl, substituted pyridinyl or substituted pyrimidinyl, the phenyl, pyridinyl, pyrimidinyl has one to three substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> linear or branched alkyl, C<sub>1</sub>-C<sub>6</sub> linear or branched alkoxy, halogen, amino, di(C<sub>1</sub>-C<sub>3</sub> alkyl)amino, carbamyl, sulfamoyl, sulfo, cyano, nitro, carboxyl, hydroxy, hydroxy(C<sub>1</sub>-C<sub>3</sub>) alkyl, (C<sub>1</sub>-C<sub>3</sub> alkyl)acyl and (C<sub>1</sub>-C<sub>3</sub> alkyl)thio.

3. (Orginal) The compound of claim 2, wherein:

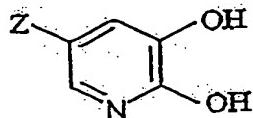
R<sub>1</sub>-X- and R<sub>2</sub>-Y- each is independently selected from the group consisting of p-tolylamino, o-tolylamino, m-tolylamino, p-ethylphenylamino, o-ethylphenylamino, m-ethylphenylamino, p-chlorophenylamino, o-chlorophenylamino, m-chlorophenylamino, p-fluorophenylamino, o-fluorophenylamino, m-fluorophenylamino, p-bromophenylamino, o-bromophenylamino, m-bromophenylamino, p-iodophenylamino, o-iodophenylamino, m-iodophenylamino, p-nitrophenylamino, o-nitrophenylamino, m-nitrophenylamino, p-carboxyphenylamino, o-carboxyphenylamino, m-carboxyphenylamino, p-carbamoylphenylamino, o-carbamoylphenylamino, m-carbamoylphenylamino, p-methoxyphenylamino, o-methoxyphenylamino, m-methoxyphenylamino, p-ethoxyphenylamino, o-ethoxyphenylamino, m-ethoxyphenylamino, p-sulfophenylamino, o-sulfophenylamino, m-sulfophenylamino, p-sulfamoylphenylamino, o-sulfamoylphenylamino, m-sulfamoylphenylamino,

p-cyanoethylphenylamino, o-cyanoethylphenylamino, m-cyanoethylphenylamino,  
p-hydroxymethylphenylamino, o-hydroxymethylphenylamino,  
m-hydroxymethylphenylamino, p-acetylphenylamino, o-acetylphenylamino,  
m-acetylphenylamino, p-acetaminophenylamino, o-acetaminophenylamino,  
m-acetaminophenylamino, p-N,N-dimethylaminophenylamino,  
o-N,N-dimethylaminophenylamino, m-N,N-dimethylaminophenylamino,  
2-carboxyl-4-bromophenylamino, 2-carboxyl-6-chlorophenylamino,  
2-carboxyl-5-chlorophenylamino, 2-carboxyl-4-chlorophenylamino,  
2-carboxyl-3-chlorophenylamino, 3-carboxyl-2-chlorophenylamino,  
3-carboxyl-6-chlorophenylamino, 3-carboxyl-4-chlorophenylamino,  
4-carboxyl-3-chlorophenylamino, 2-cyano-5-chlorophenylamino,  
2-hydroxymethyl-4-chlorophenylamino, 4-carboxyl-5-methoxy-2-chlorophenylamino,  
2-sulfo-4-methyl-5-chlorophenylamino, 2-methyl-4-nitro-5-chlorophenylamino,  
2-carboxyl-4,6-dichlorophenylamino, 2-carboxyl-4,6-diiodophenylamino,  
4-carboxyl-2,6-diiodophenylamino, 2-carboxyl-4,6-dimethoxyphenylamino,  
2-cyano-4,6-dimethoxyphenylamino, 4-carbamoyl-2,6-dinitrophenylamino,  
2-carboxyl-5-fluorophenylamino, 2-carboxyl-4-fluorophenylamino,  
2-carboxyl-3-fluorophenylamino, 2-cyano-3-fluorophenylamino,  
2-carboxyl-4-iodophenylamino, 2-carboxyl-6-methoxyphenylamino,  
3-carboxyl-6-methoxyphenylamino, 4-carboxyl-6-methoxyphenylamino,  
2-carboxyl-4-methylphenylamino, 2-carboxyl-3-methylphenylamino,  
3-carboxyl-2-methylphenylamino, 4-carboxyl-2-methylphenylamino,  
5-carboxyl-2-methylphenylamino, 2-cyano-5-methylphenylamino,  
2-hydroxymethyl-6-methylphenylamino, 2-hydroxymethyl-4-methylphenylamino,  
2-methyl-3-hydroxymethylphenylamino, 2-methyl-5-hydroxymethylphenylamino,  
2-cyano-4-nitrophenylamino, 4-cyano-2-nitrophenylamino,  
2-methyl-4-nitrophenylamino, 2-hydroxy-3-carboxylphenylamino,  
3-hydroxy-4-carboxylphenylamino, 3-carboxyl-4-hydroxyphenylamino,  
4-sulfo-2-methylphenylamino, 3-sulfo-4-methylphenylamino,  
2-sulfo-4-methylphenylamino, phenylthio, p-methylphenylthio, o-methylphenylthio,  
m-methylphenylthio, 2-carboxylphenylthio, pyridin-2-amino, pyridin-3-amino,  
pyridin-4-amino, 5-bromopyridin-2-amino, 5-bromo-3-nitropyridin-2-amino,  
4-methyl-3-nitropyridin-2-amino, 4-methyl-5-nitropyridin-2-amino,  
3-nitropyridin-2-amino, 5-nitropyridin-2-amino, 3-methylpyridin-2-amino,  
4-methylpyridin-2-amino, 5-methylpyridin-2-amino, 6-methylpyridin-2-amino,

4,6-dimethylpyridin-2-amino, 2-methoxypyridin-5-amino, 5-chloropyridin-2-amino,  
2-chloropyridin-3-amino, 2-chloropyridin-5-amino, 3,5-dibromopyridin-2-amino,  
3,5-dichloropyridin-2-amino, 4-methyl-3-nitropyridin-2-amino,  
4-methyl-5-nitropyridin-2-amino, nicotinamid-6-amino, nicotinamid-2-amino,  
pyrimidin-2-amino, pyrimidin-4-amino, 5-bromopyrimidin-2-amino,  
2,6-dihydroxypyrimidin-4-amino, 4,6-dimethoxypyrimidin-3-amino,  
4,6-dimethoxypyrimidin-2-amino, 4-hydroxy-6-methylpyrimidin-2-amino,  
3-hydroxypyrimidin-2-amino, 4-methoxy-5-methylpyrimidin-2-amino,  
2-methoxypyrimidin-5-amino, 4-chloro-6-methylpyrimidin-2-amino,  
6-chloro-2-methylthiopyrimidin-4-amino, 4,6-dichloropyrimidin-2-amino,  
4,6-dichloropyrimidin-5-amino, 4-methylpyrimidin-2-amino,  
3-nitropyrimidin-2-amino and 5-nitropyrimidin-2-amino.

4. (Original) A method of preparing the compound represented by formula I,  
comprising:  
reacting the compound represented by formula II

(formula II)



wherein Z is H or halogen,  
with one or two aromatic amines represented by formula III

$R_4NH_2$  (formula III)

Wherein  $R_4$  represents substituted or unsubstituted phenyl, pyridinyl or pyrimidinyl,  
or,  
with one or two thiophenols represented by formula IV

$R_5SH$  (formula IV)

Wherein  $R_5$  represents substituted or unsubstituted phenyl,  
in the presence of an oxidant at a temperature of 10-80°C for 0.2-20 hrs.

5. (Original) The method of claim 4, wherein the halogen is chloro or bromo.

6. (Original) The method of claim 4, wherein R<sub>4</sub> represents substituted phenyl, substituted pyridinyl or substituted pyrimidinyl, the phenyl, pyridinyl or pyrimidinyl has one to three substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> linear or branched alkyl, C<sub>1</sub>-C<sub>6</sub> linear or branched alkoxy, halogen, amino, di(C<sub>1</sub>-C<sub>3</sub> alkyl)amino, carbamyl, sulfamoyl, sulfo, cyano, nitro, carboxyl, hydroxy, hydroxy(C<sub>1</sub>-C<sub>3</sub>) alkyl, (C<sub>1</sub>-C<sub>3</sub> alkyl)acyl and (C<sub>1</sub>-C<sub>3</sub> alkyl)thio.

7. (Original) The method of claim 4, wherein R<sub>5</sub> represents a substituted phenyl having one to two substituents selected from the group consisting of methyl, ethyl, propyl and carboxyl.

Currently

8. (Amended) The method of any one of claims 4 to 7, wherein the reaction is performed in an aqueous organic solvent and wherein the oxidant is selected from the group consisting of alkali metal salts of bromic acid, alkali metal salts of iodic acid, alkali metal salts of persulfuric acid, alkali metal salts of chloric acid, and the mixture thereof.

9. (Original) The method of claim 8, wherein the alkali metal is sodium or potassium.

10. (Original) The method of claim 8, wherein the reaction temperature is 40°C-60°C.

11. (Original) The method of claim 8, wherein the oxidant is added in portions.

12. (Original) The method of claim 8, wherein the reaction time is 2-10 hrs.

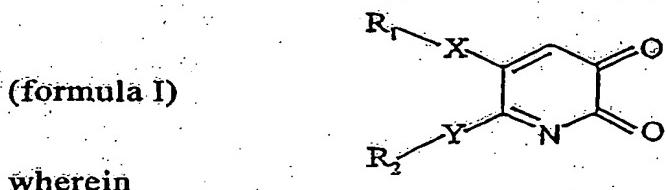
13. (Currently Amended) The method of any one of claims 4 to 7, wherein the oxidant is a polyphenoloxidase.

14. (Original) The method of claim 13, wherein the reaction temperature is 25°C-45°C.

15. (Original) The method of claim 13, wherein the reaction time is 2-20 hrs.

16. (Amended) The method of any one of claims 4 to 7, wherein the organic solvent is selected from the group consisting of methanol, ethanol, dimethyl sulfoxide, acetone, dioxane, tetrahydrofuran, dimethyl formamide, acetonitrile, and the mixture thereof.

**17. (Original) A pharmaceutical composition, which contains the compound represented by formula I as an active component and a pharmaceutically acceptable carrier,**



wherein

R<sub>1</sub> and R<sub>2</sub> may be the same or different, each independently represents substituted or unsubstituted phenyl, pyridinyl or pyrimidinyl,

X and Y may be the same or different, each independently represents an N or S atom, provided that when X or Y represents S, then the R<sub>1</sub> or R<sub>2</sub> attached to the S atom is substituted or unsubstituted phenyl.

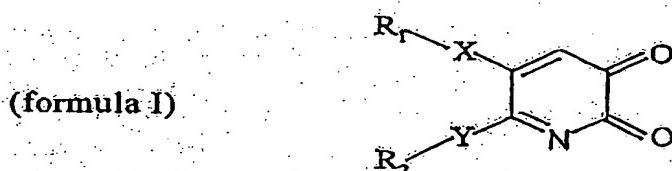
**18. (Original) The pharmaceutical composition of claim 17, wherein when R<sub>1</sub> or R<sub>2</sub> represents substituted phenyl, substituted pyridinyl or substituted pyrimidinyl, the phenyl, pyridinyl, pyrimidinyl has one to three substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> linear or branched alkyl, C<sub>1</sub>-C<sub>6</sub> linear or branched alkoxy, halogen, amino, di(C<sub>1</sub>-C<sub>3</sub> alkyl)amino, carbamyl, sulfamoyl, sulfo, cyano, nitro, carboxyl, hydroxy, hydroxy(C<sub>1</sub>-C<sub>3</sub>) alkyl, (C<sub>1</sub>-C<sub>3</sub> alkyl)acyl and (C<sub>1</sub>-C<sub>3</sub> alkyl)thio.**

**19. (Original) The pharmaceutical composition of claim 18, wherein R<sub>1</sub>-X and R<sub>2</sub>-Y each is independently selected from the group consisting of p-tolylamino, o-tolylamino, m-tolylamino, p-ethylphenylamino, o-ethylphenylamino, m-ethylphenylamino, p-chlorophenylamino, o-chlorophenylamino, m-chlorophenylamino, p-fluorophenylamino, o-fluorophenylamino, m-fluorophenylamino, p-bromophenylamino, o-bromophenylamino, m-bromophenylamino, p-iodophenylamino, o-iodophenylamino, m-iodophenylamino, p-nitrophenylamino, o-nitrophenylamino, m-nitrophenylamino, p-carboxylphenylamino, o-carboxylphenylamino, m-carboxylphenylamino, p-carbamoylphenylamino, o-carbamoylphenylamino, m-carbamoylphenylamino, p-methoxyphenylamino, o-methoxyphenylamino, m-methoxyphenylamino, p-ethoxyphenylamino, o-ethoxyphenylamino, m-ethoxyphenylamino, p-sulfophenylamino, o-sulfophenylamino, m-sulfophenylamino, p-sulfamoylphenylamino, o-sulfamoylphenylamino, m-sulfamoylphenylamino, p-cyanoylphenylamino, o-cyanoylphenylamino, m-cyanoylphenylamino, p-hydroxymethylphenylamino,**

o-hydroxymethylphenylamino, m-hydroxymethylphenylamino, p-acetylphenylamino,  
o-acetylphenylamino, m-acetylphenylamino, p-acetaminophenylamino,  
o-acetaminophenylamino, m-acetaminophenylamino,  
p-N,N-dimethylaminophenylamino, o-N,N-dimethylaminophenylamino,  
m-N,N-dimethylaminophenylamino, 2-carboxyl-4-bromophenylamino,  
2-carboxyl-6-chloro-phenylamino, 2-carboxyl-5-chlorophenylamino,  
2-carboxyl-4-chlorophenylamino, 2-carboxyl-3-chlorophenylamino,  
3-carboxyl-2-chlorophenylamino, 3-carboxyl-6-chlorophenylamino,  
3-carboxyl-4-chlorophenylamino, 4-carboxyl-3-chlorophenylamino,  
2-cyano-5-chlorophenylamino, 2-hydroxymethyl-4-chlorophenylamino,  
4-carboxyl-5-methoxy-2-chlorophenylamino, 2-sulfo-4-methyl-5-chlorophenylamino,  
2-methyl-4-nitro-5-chlorophenylamino, 2-carboxyl-4,6-dichlorophenylamino,  
2-carboxyl-4,6-diodophenylamino, 4-carboxyl-2,6-diodophenylamino,  
2-carboxyl-4,6-dimethoxyphenylamino, 2-cyano-4,6-dimethoxyphenylamino,  
4-carbamoyl-2,6-dinitrophenylamino, 2-carboxyl-5-fluorophenylamino,  
2-carboxyl-4-fluorophenylamino, 2-carboxyl-3-fluorophenylamino,  
2-cyano-3-fluorophenylamino, 2-carboxyl-4-iodophenylamino,  
2-carboxyl-6-methoxyphenylamino, 3-carboxyl-6-methoxyphenylamino,  
4-carboxyl-6-methoxyphenylamino, 2-carboxyl-4-methylphenylamino,  
2-carboxyl-3-methylphenylamino, 3-carboxyl-2-methylphenylamino,  
4-carboxyl-2-methylphenylamino, 5-carboxyl-2-methylphenylamino,  
2-cyano-5-methylphenylamino, 2-hydroxymethyl-6-methylphenylamino,  
2-hydroxymethyl-4-methylphenylamino, 2-methyl-3-hydroxymethylphenylamino,  
2-methyl-5-hydroxymethylphenylamino, 2-cyano-4-nitrophenylamino,  
4-cyano-2-nitrophenylamino, 2-methyl-4-nitrophenylamino,  
2-hydroxy-3-carboxylphenylamino, 3-hydroxy-4-carboxylphenylamino,  
3-carboxyl-4-hydroxyphenylamino, 4-sulfo-2-methylphenylamino,  
3-sulfo-4-methylphenylamino, 2-sulfo-4-methylphenylamino, phenylthio,  
p-methylphenylthio, o-methylphenylthio, m-methylphenylthio, 2-carboxylphenylthio,  
pyridin-2-amino, pyridin-3-amino, pyridin-4-amino, 5-bromopyridin-2-amino,  
5-bromo-3-nitropyridin-2-amino, 4-methyl-3-nitropyridin-2-amino,  
4-methyl-5-nitropyridin-2-amino, 3-nitropyridin-2-amino, 5-nitropyridin-2-amino,  
3-methylpyridin-2-amino, 4-methylpyridin-2-amino, 5-methylpyridin-2-amino,  
6-methylpyridin-2-amino, 4,6-dimethylpyridin-2-amino, 2-methoxypyridin-5-amino,  
5-chloropyridin-2-amino, 2-chloropyridin-3-amino, 2-chloropyridin-5-amino.

3,5-dibromopyridin-2-amino, 3,5-dichloropyridin-2-amino,  
 4-methyl-3-nitropyridin-2-amino, 4-methyl-5-nitropyridin-2-amino,  
 nicotinamid-6-amino, nicotinamid-2-amino, pyrimidin-2-amino, pyrimidin-4-amino,  
 5-bromopyrimidin-2-amino, 2,6-dihydroxypyrimidin-4-amino,  
 4,6-dimethoxypyrimidin-3-amino, 4,6-dimethoxypyrimidin-2-amino,  
 4-hydroxy-6-methylpyrimidin-2-amino, 3-hydroxypyrimidin-2-amino,  
 4-methoxy-5-methylpyrimidin-2-amino, 2-methoxypyrimidin-5-amino,  
 4-chloro-6-methylpyrimidin-2-amino, 6-chloro-2-methylthiopyrimidin-4-amino,  
 4,6-dichloropyrimidin-2-amino, 4,6-dichloropyrimidin-5-amino,  
 4-methylpyrimidin-2-amino, 3-nitropyrimidin-2-amino and 5-nitropyrimidin-2-amino.

20. (Currently Amended) The use of the compound represented by formula I, characterized in that wherein the compound is used in preparing a pharmaceutical composition for selectively inhibiting cyclooxygenase-2,



wherein

$R_1$  and  $R_2$  may be the same or different, each independently represents substituted or unsubstituted phenyl, pyridinyl or pyrimidinyl,

$X$  and  $Y$  may be the same or different, each independently represents an N or S atom, provided that when X or Y represents S, then the  $R_1$  or  $R_2$  attached to the S atom is substituted or unsubstituted phenyl.

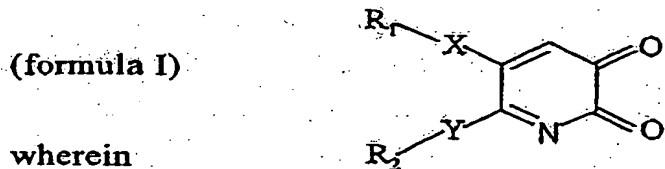
21. (Original) The use of claim 20, wherein  $R_1$  or  $R_2$  represents substituted phenyl, substituted pyridinyl or substituted pyrimidinyl, the phenyl, pyridinyl, pyrimidinyl has one to three substituents independently selected from the group consisting of  $C_1-C_6$  linear or branched alkyl,  $C_1-C_6$  linear or branched alkoxy, halogen, amino, di( $C_1-C_3$  alkyl)amino, carbamyl, sulamoyl, sulfo, cyano, nitro, carboxyl, hydroxy, hydroxy( $C_1-C_3$ ) alkyl, ( $C_1-C_3$  alkyl)acyl and ( $C_1-C_3$  alkyl)thio.

22. (Original) The use of claim 21, wherein  $R_1$ -X- and  $R_2$ -Y- each is independently selected from the group consisting of p-tolylamino, o-tolylamino, m-tolylamino, p-ethylphenylamino, o-ethylphenylamino, m-ethylphenylamino, p-chlorophenylamino,

o-chlorophenylamino, m-chlorophenylamino, p-fluorophenylamino,  
o-fluorophenylamino, m-fluorophenylamino, p-bromophenylamino,  
o-bromophenylamino, m-bromophenylamino, p-iodophenylamino, o-iodophenylamino,  
m-iodophenylamino, p-nitrophenylamino, o-nitrophenylamino, m-nitrophenylamino,  
p-carboxyphenylamino, o-carboxyphenylamino, m-carboxyphenylamino,  
p-carbamoylphenylamino, o-carbamoylphenylamino, m-carbamoylphenylamino,  
p-methoxyphenylamino, o-methoxyphenylamino, m-methoxyphenylamino,  
p-ethoxyphenylamino, o-ethoxyphenylamino, m-ethoxyphenylamino,  
p-sulfophenylamino, o-sulfophenylamino, m-sulfophenylamino,  
p-sulfamoylphenylamino, o-sulfamoylphenylamino, m-sulfamoylphenylamino,  
p-cyanoylphenylamino, o-cyanoylphenylamino, m-cyanoylphenylamino,  
p-hydroxymethylphenylamino, o-hydroxymethylphenylamino,  
m-hydroxymethylphenylamino, p-acetylphenylamino, o-acetylphenylamino,  
m-acetylphenylamino, p-acetaminophenylamino, o-acetaminophenylamino,  
m-acetaminophenylamino, p-N,N-dimethylaminophenylamino,  
o-N,N-dimethylaminophenylamino, m-N,N-dimethylaminophenylamino,  
2-carboxyl-4-bromophenylamino, 2-carboxyl-6-chlorophenylamino,  
2-carboxyl-5-chlorophenylamino, 2-carboxyl-4-chlorophenylamino,  
2-carboxyl-3-chlorophenylamino, 3-carboxyl-2-chlorophenylamino,  
3-carboxyl-6-chlorophenylamino, 3-carboxyl-4-chlorophenylamino,  
4-carboxyl-3-chlorophenylamino, 2-cyano-5-chlorophenylamino,  
2-hydroxymethyl-4-chlorophenylamino, 4-carboxyl-5-methoxy-2-chlorophenylamino,  
2-sulfo-4-methyl-5-chlorophenylamino, 2-methyl-4-nitro-5-chlorophenylamino,  
2-carboxyl-4,6-dichlorophenylamino, 2-carboxyl-4,6-diiodophenylamino,  
4-carboxyl-2,6-diiodophenylamino, 2-carboxyl-4,6-dimethoxyphenylamino,  
2-cyano-4,6-dimethoxyphenylamino, 4-carbamoyl-2,6-dinitrophenylamino,  
2-carboxyl-5-fluorophenylamino, 2-carboxyl-4-fluorophenylamino,  
2-carboxyl-3-fluorophenylamino, 2-cyano-3-fluorophenylamino,  
2-carboxyl-4-iodophenylamino, 2-carboxyl-6-methoxyphenylamino,  
3-carboxyl-6-methoxyphenylamino, 4-carboxyl-6-methoxyphenylamino,  
2-carboxyl-4-methylphenylamino, 2-carboxyl-3-methylphenylamino,  
3-carboxyl-2-methylphenylamino, 4-carboxyl-2-methylphenylamino,  
5-carboxyl-2-methylphenylamino, 2-cyano-5-methylphenylamino,  
2-hydroxymethyl-6-methylphenylamino, 2-hydroxymethyl-4-methylphenylamino,  
2-methyl-3-hydroxymethylphenylamino, 2-methyl-5-hydroxymethylphenylamino,

2-cyano-4-nitrophenylamino, 4-cyano-2-nitrophenylamino,  
 2-methyl-4-nitrophenylamino, 2-hydroxy-3-carboxylphenylamino,  
 3-hydroxy-4-carboxylphenylamino, 3-carboxyl-4-hydroxyphenylamino,  
 4-sulfo-2-methylphenylamino, 3-sulfo-4-methylphenylamino,  
 2-sulfo-4-methylphenylamino, phenylthio, p-methylphenylthio, o-methylphenylthio,  
 m-methylphenylthio, 2-carboxylphenylthio, pyridin-2-amino, pyridin-3-amino,  
 pyridin-4-amino, 5-bromopyridin-2-amino, 5-bromo-3-nitropyridin-2-amino,  
 4-methyl-3-nitropyridin-2-amino, 4-methyl-5-nitropyridin-2-amino,  
 3-nitropyridin-2-amino, 5-nitropyridin-2-amino, 3-methylpyridin-2-amino,  
 4-methylpyridin-2-amino, 5-methylpyridin-2-amino, 6-methylpyridin-2-amino,  
 4,6-dimethylpyridin-2-amino, 2-methoxypyridin-5-amino, 5-chloropyridin-2-amino,  
 2-chloropyridin-3-amino, 2-chloropyridin-5-amino, 3,5-dibromopyridin-2-amino,  
 3,5-dichloropyridin-2-amino, 4-methyl-3-nitropyridin-2-amino,  
 4-methyl-5-nitropyridin-2-amino, nicotinamid-6-amino, nicotinamid-2-amino,  
 pyrimidin-2-amino, pyrimidin-4-amino, 5-bromopyrimidin-2-amino,  
 2,6-dihydroxypyrimidin-4-amino, 4,6-dimethoxypyrimidin-3-amino,  
 4,6-dimethoxypyrimidin-2-amino, 4-hydroxy-6-methylpyrimidin-2-amino,  
 3-hydroxypyrimidin-2-amino, 4-methoxy-5-methylpyrimidin-2-amino,  
 2-methoxypyrimidin-5-amino, 4-chloro-6-methylpyrimidin-2-amino,  
 6-chloro-2-methylthiopyrimidin-4-amino, 4,6-dichloropyrimidin-2-amino,  
 4,6-dichloropyrimidin-5-amino, 4-methylpyrimidin-2-amino,  
 3-nitropyrimidin-2-amino and 5-nitropyrimidin-2-amino.

**23. (Original) A method of selectively inhibiting cyclooxygenase -2, wherein comprising administrating the compound represented by formula I to a mammal,**



R<sub>1</sub> and R<sub>2</sub> may be the same or different, each independently represents substituted or unsubstituted phenyl, pyridinyl or pyrimidinyl.

X and Y may be the same or different, each independently represents an N or S atom, provided that when X or Y represents S, then the R<sub>1</sub> or R<sub>2</sub> attached to the S atom is substituted or unsubstituted phenyl.

**24. (Original) The method of claim 23, wherein R<sub>1</sub> or R<sub>2</sub> represents substituted phenyl, substituted pyridinyl or substituted pyrimidinyl, the phenyl, pyridinyl, pyrimidinyl has one to three substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> linear or branched alkyl, C<sub>1</sub>-C<sub>6</sub> linear or branched alkoxy, halogen, amino, di(C<sub>1</sub>-C<sub>3</sub> alkyl)amino, carbamyl, sulamoyl, sulfo, cyano, nitro, carboxyl, hydroxy, hydroxy(C<sub>1</sub>-C<sub>3</sub>) alkyl, (C<sub>1</sub>-C<sub>3</sub> alkyl)acyl and (C<sub>1</sub>-C<sub>3</sub> alkyl)thio.**

**25. (Original) The method of claim 24, wherein R<sub>1</sub>-X- and R<sub>2</sub>-Y- each is independently selected from the group consisting of p-tolylamino, o-tolylamino, m-tolylamino, p-ethylphenylamino, o-ethylphenylamino, m-ethylphenylamino, p-chlorophenylamino, o-chlorophenylamino, m-chlorophenylamino, p-fluorophenylamino, o-fluorophenylamino, m-fluorophenylamino, p-bromophenylamino, o-bromophenylamino, m-bromophenylamino, p-iodophenylamino, o-iodophenylamino, m-iodophenylamino, p-nitrophenylamino, o-nitrophenylamino, m-nitrophenylamino, p-carboxylphenylamino, o-carboxylphenylamino, m-carboxylphenylamino, p-carbamoylphenylamino, o-carbamoylphenylamino, m-carbamoylphenylamino, p-methoxyphenylamino, o-methoxyphenylamino, m-methoxyphenylamino, p-ethoxyphenylamino, o-ethoxyphenylamino, m-ethoxyphenylamino, p-sulfophenylamino, o-sulfophenylamino, m-sulfophenylamino, p-sulfamoylphenylamino, o-sulfamoylphenylamino, m-sulfamoylphenylamino, p-cyanoethylphenylamino, o-cyanoethylphenylamino, m-cyanoethylphenylamino, p-hydroxymethylphenylamino, o-hydroxymethylphenylamino, m-hydroxymethylphenylamino, p-acetylphenylamino, o-acetylphenylamino, m-acetylphenylamino, p-acetaminophenylamino, o-acetaminophenylamino, m-acetaminophenylamino, p-N,N-dimethylaminophenylamino, o-N,N-dimethylaminophenylamino, m-N,N-dimethylaminophenylamino, 2-carboxyl-4-bromophenylamino, 2-carboxyl-6-chlorophenylamino, 2-carboxyl-5-chlorophenylamino, 2-carboxyl-4-chlorophenylamino, 2-carboxyl-3-chlorophenylamino, 3-carboxyl-2-chlorophenylamino, 3-carboxyl-6-chlorophenylamino, 3-carboxyl-4-chlorophenylamino, 4-carboxyl-3-chlorophenylamino, 2-cyano-5-chlorophenylamino, 2-hydroxymethyl-4-chlorophenylamino, 4-carboxyl-5-methoxy-2-chlorophenylamino, 2-sulfo-4-methyl-5-chlorophenylamino, 2-methyl-4-nitro-5-chlorophenylamino, 2-carboxyl-4,6-dichlorophenylamino, 2-carboxyl-4,6-diiodophenylamino, 4-carboxyl-2,6-diiodophenylamino, 2-carboxyl-4,6-dimethoxyphenylamino,**

2-cyano-4,6-dimethoxyphenylamino, 4-carbamoyl-2,6-dinitrophenylamino,  
2-carboxyl-5-fluorophenylamino, 2-carboxyl-4-fluorophenylamino,  
2-carboxyl-3-fluorophenylamino, 2-cyano-3-fluorophenylamino,  
2-carboxyl-4-iodophenylamino, 2-carboxyl-6-methoxyphenylamino,  
3-carboxyl-6-methoxyphenylamino, 4-carboxyl-6-methoxyphenylamino,  
2-carboxyl-4-methylphenylamino, 2-carboxyl-3-methylphenylamino,  
3-carboxyl-2-methylphenylamino, 4-carboxyl-2-methylphenylamino,  
5-carboxyl-2-methylphenylamino, 2-cyano-5-methylphenylamino,  
2-hydroxymethyl-6-methylphenylamino, 2-hydroxymethyl-4-methylphenylamino,  
2-methyl-3-hydroxymethylphenylamino, 2-methyl-5-hydroxymethylphenylamino,  
2-cyano-4-nitrophenylamino, 4-cyano-2-nitrophenylamino,  
2-methyl-4-nitrophenylamino, 2-hydroxy-3-carboxylphenylamino,  
3-hydroxy-4-carboxylphenylamino, 3-carboxyl-4-hydroxyphenylamino,  
4-sulfo-2-methylphenylamino, 3-sulfo-4-methylphenylamino,  
2-sulfo-4-methylphenylamino, phenylthio, p-methylphenylthio, o-methylphenylthio,  
m-methylphenylthio, 2-carboxylphenylthio, pyridin-2-amino, pyridin-3-amino,  
pyridin-4-amino, 5-bromopyridin-2-amino, 5-bromo-3-nitropyridin-2-amino,  
4-methyl-3-nitropyridin-2-amino, 4-methyl-5-nitropyridin-2-amino,  
3-nitropyridin-2-amino, 5-nitropyridin-2-amino, 3-methylpyridin-2-amino,  
4-methylpyridin-2-amino, 5-methylpyridin-2-amino, 6-methylpyridin-2-amino,  
4,6-dimethylpyridin-2-amino, 2-methoxypyridin-5-amino, 5-chloropyridin-2-amino,  
2-chloropyridin-3-amino, 2-chloropyridin-5-amino, 3,5-dibromopyridin-2-amino,  
3,5-dichloropyridin-2-amino, 4-methyl-3-nitropyridin-2-amino,  
4-methyl-5-nitropyridin-2-amino, nicotinamid-6-amino, nicotinamid-2-amino,  
pyrimidin-2-amino, pyrimidin-4-amino, 5-bromopyrimidin-2-amino,  
2,6-dihydroxypyrimidin-4-amino, 4,6-dimethoxypyrimidin-3-amino,  
4,6-dimethoxypyrimidin-2-amino, 4-hydroxy-6-methylpyrimidin-2-amino,  
3-hydroxypyrimidin-2-amino, 4-methoxy-5-methylpyrimidin-2-amino,  
2-methoxypyrimidin-5-amino, 4-chloro-6-methylpyrimidin-2-amino,  
6-chloro-2-methylthiopyrimidin-4-amino, 4,6-dichloropyrimidin-2-amino,  
4,6-dichloropyrimidin-5-amino, 4-methylpyrimidin-2-amino,  
3-nitropyrimidin-2-amino and 5-nitropyrimidin-2-amino.

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